



AGENDA

ASTORIA CITY COUNCIL SPECIAL MEETING

Friday, July 8, 2016

12:00 noon

2nd Floor Council Chambers

1095 Duane Street · Astoria OR 97103

- 1. CALL TO ORDER**

- 2. ROLL CALL**

- 3. AGENDA ITEMS**
 - (a) 2016 Street End Bridge Repair Project – Design Contract Award (Public Works)
 - (b) Authorization to Award Contract – Astoria Aquatic Center Waterslide Pump and Valves Replacement (Parks)

- 4. ADJOURNMENT**

THIS MEETING IS ACCESSIBLE TO THE DISABLED. AN INTERPRETER FOR THE HEARING IMPAIRED MAY BE REQUESTED UNDER THE TERMS OF ORS 192.630 BY CONTACTING JULIE YUILL, CITY MANAGER'S OFFICE, 503-325-5824.



CITY OF ASTORIA
Founded 1811 • Incorporated 1856

July 6, 2016

MEMORANDUM

TO: MAYOR AND CITY COUNCIL

FROM: BRETT ESTES, CITY MANAGER

SUBJECT: **2016 STREET END BRIDGE REPAIR PROJECT - DESIGN CONTRACT AWARD**

DISCUSSION/ANALYSIS

The City of Astoria has six timber street end structures at the north ends of 6th, 7th, 8th, 9th, 10th and 11th Streets that are inspected annually by the Oregon Department of Transportation (ODOT) Bridge Department. ODOT inspects the structures and makes recommendations for repairs that will permit the structures to safely remain open. Without the identified repairs, the structures will be recommended for closure to both vehicular and trolley traffic by ODOT staff. ODOT has conducted inspections for 2016 and has made recommendations for repairs on all of the structures. Due to the nature of the repairs, ODOT has given the City until August 1, 2016 to be well underway with the repair effort. The City is working with ODOT on mitigation measures that could allow an extension of the completion date.

Most of the structures are currently limited to a 3 ton vehicle load due to their poor condition. The recommended repairs target the existing bridge load limits of 3 tons. The repairs will be designed to include only what has been deemed absolutely essential in order to minimize the expenditure of funds prior to the upcoming planned replacement of the structures. To assist with this effort and coordination with ODOT, the City has received a proposal from OBEC Consulting Engineers (OBEC) for design services and construction support. OBEC is currently working on the Waterfront Bridges Replacement Project and has just completed our Trolley Trestle Inspection for 2016. They have the information and resources necessary to help the City quickly identify and implement the most cost effective repair solutions to be compliant with ODOT requirements.

The City's past compliance with the ODOT recommendations has aided the City in obtaining a \$9,487,000 million dollar grant from Federal Bridge replacement funds through the State Transportation Improvement (STIP) program. This is the same program that funded at a 90% level the replacement of the Franklin Avenue Bridge, and the replacement of the Irving Avenue Bridge. It is anticipated that construction of the Waterfront Bridges Replacement

Project would commence during the fall of 2017. The replacement project is currently being designed.

OBEC has provided a proposal for design services and construction support for the 2016 Street End Bridge Repair Project in the amount of \$43,031.00. OBEC is listed on the ODOT Consultant List for Local Public Agencies so staff recommends executing a personal services contract for design services and construction support per Astoria Code Section 1.967C(3), Award from a Qualified Pool. Funding for this design project will come from the Promote Astoria Fund where funds are allocated in the Fiscal Year 2016-2017 budget for trestle repairs. The City Attorney has reviewed and approved the contract as to form.

During design work, City staff will work with OBEC for procurement of a contractor with the goal of getting repair work started as soon as possible. The required repairs have initially been estimated by staff to cost approximately \$150,000. It is expected that funding for the repairs would come from the Capital Improvement Fund and / or the Promote Astoria Fund. We are currently looking into ways to potentially reduce the cost by: utilizing City staff for certain repair work; targeted load rating evaluation; and strategic reinforcement on street ends that already have mobility limitations. We anticipate bringing a construction contract to City Council for approval before the end of the month.

Staff will contact affected businesses and the Trolley Association prior to start of construction. The repair work is expected to take approximately 30 days to complete.

RECOMMENDATION

It is recommended that the City Council authorize the award of a personal services contract to OBEC Consulting Engineers, Inc. in the amount of \$43,031.00 for design and construction assistance for the 2016 Street End Bridge Repair Project.

Prepared By: 
Nathan Crater PE, Assistant City Engineer

**CITY OF ASTORIA
CONTRACT FOR PERSONAL SERVICES**

CONTRACT:

This Contract, made and entered into this ___ day of _____, 2016 by and between the City of Astoria, a municipal corporation of the State of Oregon, hereinafter called "CITY", and OBEC Consulting Engineers, 5000 Meadows Rd., Ste. 420, Lake Oswego, OR 97035 address hereinafter called "CONSULTANT", duly authorized to perform such services in Oregon.

WITNESSETH

WHEREAS, the CITY requires services which CONSULTANT is capable of providing, under terms and conditions hereinafter described; and

WHEREAS, CONSULTANT is able and prepared to provide such services as CITY does hereinafter require, under those terms and conditions set forth; now, therefore,

IN CONSIDERATION of those mutual promises and the terms and conditions set forth hereafter, the parties agree as follows:

1. CONSULTANT SERVICES

A. CONSULTANT shall perform professional services, as outlined in the Attachment A, to the City of Astoria regarding the design and construction assistance for the Street-end Repair Project 2016.

B. Consultant's services are defined solely by this Contract and its attachment and not by any other contract or agreement that may be associated with this project.

C. The CONSULTANT'S services shall be performed as expeditiously as is consistent with professional skill and the orderly progress of work. All work shall be completed no later than September 1, 2016.

2. COMPENSATION

A. The CITY agrees to pay CONSULTANT a total not to exceed \$43,031.00 for performance of those services provided herein;

B. The CONSULTANT will submit monthly billings for payment which will be based upon the percentage of work completed in each of the categories listed in the scope of work. Said progress billings shall be payable within 30 days of receipt by City.

C. CITY certifies that sufficient funds are available and authorized for expenditure to finance costs of this Contract.

3. CONSULTANT IDENTIFICATION

CONSULTANT shall furnish to the CITY the CONSULTANT'S employer identification number, as designated by the Internal Revenue Service, or CONSULTANT'S Social Security number, as CITY deems applicable.

4. CITY'S REPRESENTATIVE

For purposes hereof, the CITY'S authorized representative will be Jeff Harrington, PE, City of Astoria, 1095 Duane Street, Astoria, Oregon, 97103, (503) 338-5173.

5. CONSULTANT'S REPRESENTATIVE

For purposes hereof, the CONSULTANT'S authorized representative will be Jason Kelly PE.

6. CITY'S OBLIGATIONS

In order to facilitate the work of the CONSULTANT as above outlined, the CITY shall furnish to the CONSULTANT access to all relevant maps, aerial photographs, reports and site information which is in the City's possession concerning the project area. In addition, the CITY shall act as liaison for the CONSULTANT, assisting the CONSULTANT with making contacts and facilitating meetings, as necessary.

7. CONSULTANT IS INDEPENDENT CONSULTANT

A. CONSULTANT'S services shall be provided under the general supervision of City's project director or his designee, but CONSULTANT shall be an independent consultant for all purposes and shall be entitled to no compensation other than the compensation provided for under Section 2 of this Contract,

B. CONSULTANT acknowledges that for all purposes related to this Contract, CONSULTANT is and shall be deemed to be an independent CONSULTANT and not an employee of the City, shall not be entitled to benefits of any kind to which an employee of the City is entitled and shall be solely responsible for all payments and taxes required by law; and furthermore in the event that CONSULTANT is found by a court of law or an administrative agency to be an employee of the City for any purpose, City shall be entitled to offset compensation due, or, to demand repayment of any amounts paid to CONSULTANT under the terms of the Contract, to the full extent of any benefits or other remuneration CONSULTANT receives (from City or third party) as result of said finding and to the full extent of any payments that City is required to make (to CONSULTANT or a third party) as a result of said finding.

C. The undersigned CONSULTANT hereby represents that no employee of the City of Astoria, or any partnership or corporation in which a City of Astoria employee has an interest, has or will receive any remuneration of any description from the CONSULTANT, either directly or indirectly, in connection with the letting or performance of this Contract, except as specifically declared in writing.

8. CANCELLATION FOR CAUSE

CITY may cancel all or any part of this Contract if CONSULTANT breaches any of the terms herein and fails to cure such breach within 10 days after receiving notice thereof, or in the event of any of the following: Insolvency of CONSULTANT; voluntary or involuntary petition in bankruptcy by or against CONSULTANT; appointment of a receiver or trustee for CONSULTANT, or any assignment for benefit of creditors of CONSULTANT. Damages for breach shall be those allowed by Oregon law, reasonable and necessary attorney's fees, and other costs of litigation at trial and upon appeal. CONSULTANT may likewise cancel all or any part of this contract if CITY breaches any of the terms herein and be therefore entitled to equivalent damages as expressed above for CITY.

9. ACCESS TO RECORDS

CITY shall have access to such books, documents, papers and records of contract as are directly pertinent to this contract for the purposes of making audit, examination, excerpts and transcripts.

10. FORCE MAJEURE

Neither CITY nor CONSULTANT shall be considered in default because of any delays in completion of responsibilities hereunder due to causes beyond the control and without fault or negligence on the part of the party so disabled provided the party so disabled shall within ten (10) days from the beginning such delay notify the other party in writing of the causes of delay and its probable extent. Such notification shall not be the basis for a claim for additional compensation.

11. NONWAIVER

The failure of the CITY to insist upon or enforce strict performance by CONSULTANT of any of the terms of this Contract or to exercise any rights hereunder shall not be construed as a waiver or relinquishment to any extent of its right to assert or rely upon such terms or rights on any future occasion.

12. ATTORNEY'S FEES

In the event suit or action is instituted to enforce any of the terms of this contract, the prevailing party shall be entitled to recover from the other party such sum as the court may adjudge reasonable as attorney's fees at trial or on appeal of such suit or action, in addition to all other sums provided by law.

13. APPLICABLE LAW

The law of the State of Oregon shall govern the validity of this Agreement, its interpretation and performance, and any other claims related to it.

14. CONFLICT BETWEEN TERMS

It is further expressly agreed by and between the parties hereto that should there be any conflict between the terms of this instrument and the proposal of the CONSULTANT, this instrument shall control and nothing herein shall be considered as an acceptance of the said terms of said proposal conflicting herewith.

15. INDEMNIFICATION

With regard to Comprehensive General Liability, CONSULTANT agrees to indemnify and hold harmless the City of Astoria, its Officers, and Employees against and from any and all loss, claims, actions, suits, reasonable defense costs, attorney fees and expenses for or on account of injury, bodily or otherwise to, or death of persons, damage to or destruction of property belonging to city, consultant, or others resulting from or arising out of CONSULTANT'S negligent acts, errors or omissions in services pursuant to this Agreement. This agreement to indemnify applies whether such claims are meritorious or not; provided, however, that if any such liability, settlements, loss, defense costs or expenses result from the concurrent negligence of CONSULTANT and The City of Astoria this indemnification and agreement to assume defense costs applies only to the extent of the negligence or alleged negligence of the CONSULTANT.

With regard to Professional Liability, CONSULTANT agrees to indemnify and hold harmless the City of Astoria, its Officers and Employees from any and all liability, settlements, loss, reasonable defense costs, attorney fees and expenses to the extent it arises out of CONSULTANT'S negligent acts, errors or omissions in service provided pursuant to this Agreement; provided, however, that if any such liability, settlements, loss, defense costs or expenses result from the concurrent negligence of CONSULTANT and the Client, this indemnification and agreement to assume defense costs applies only to the extent of negligence of CONSULTANT.

With respect to Commercial Liability and Professional Liability, CONSULTANT reserves the right to approve the choice of counsel.

16. INSURANCE

Prior to starting work hereunder, CONSULTANT, at CONSULTANT'S cost, shall secure and continue to carry during the term of this contract, with an insurance company acceptable to CITY, the following insurance, written on an occurrence basis, in amounts not less than the limitations on liability for local public bodies provided in ORS 30.272 and ORS 30.273:

A. Commercial General Liability. CONSULTANT shall obtain, at CONSULTANT'S expense and keep in effect during the term of this Contract, Commercial General Liability Insurance covering bodily injury and property damage. Coverage shall include consultants, subconsultants and anyone directly or indirectly employed by either.

B. Automobile Liability. Automobile Liability. CONSULTANT shall obtain, at CONSULTANT'S expense and keep in effect during the term of the resulting contract, Commercial Business Automobile Liability Insurance covering all owned, non-owned, or hired vehicles. This coverage may be written in combination with the Commercial General Liability Insurance (with separate limits).

C. Additional Insured. The liability insurance coverage shall include CITY and its officers and employees as Additional Insured but only with respect to CONSULTANT'S activities to be

performed under this Contract. Coverage will be primary and non-contributory with any other insurance and self-insurance. Prior to starting work under this Contract, CONSULTANT shall furnish a certificate to CITY from each insurance company providing insurance showing that the CITY is an additional insured, the required coverage is in force, stating policy numbers, dates of expiration and limits of liability, and further stating that such coverage is primary and not contributory.

D. Professional Liability Insurance. The CONSULTANT shall have in force a policy of Professional Liability Insurance. The CONSULTANT shall keep such policy in force and current during the term of this contract.

E. Notice of Cancellation or Change. There will be no cancellation, material change, potential exhaustion of aggregate limits or non-renewal of insurance coverage(s) without thirty (30) days written notice from CONSULTANT or its insurer(s) to CITY. Any failure to comply with the reporting provisions of this clause will constitute a material breach of this Contract and will be grounds for immediate termination of this Agreement.

17. CITY'S BUSINESS LICENSE

Prior to beginning work, the CONSULTANT shall have a current City of Astoria business license (occupational tax). Before permitting a sub-consultant to begin work, CONSULTANT shall verify that sub-consultant has a current City of Astoria business license.

18. WORKMEN'S COMPENSATION

The CONSULTANT, its subconsultants, if any, and all employers working under this Agreement are either subject employers under the Oregon Workers' Compensation Law and shall comply with ORS 656.017, which requires them to provide workers' compensation coverage for all their subject workers, or are employers that are exempt under ORS 656.126.

19. LABORERS AND MATERIALMEN, CONTRIBUTIONS TO INDUSTRIAL ACCIDENT FUND, LIENS AND WITHHOLDING TAXES

CONSULTANT shall make payment promptly, as due, to all persons supplying CONSULTANT labor or material for the prosecution of the work provided for this contract.

CONSULTANT shall pay all contributions or amounts due the Industrial Accident Fund from CONSULTANT or any subconsultants incurred in the performance of the contract.

CONSULTANT shall not permit any lien or claim to be filed or prosecuted against the state, county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished.

CONSULTANT shall pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167.

20. NONDISCRIMINATION

It is the policy of the City of Astoria that no person shall be denied the benefits of or be subject to unlawful discrimination in any City program, service, or activity on the grounds of age, disability, race, religion, color, national origin, sex, sexual orientation, gender

identity/expression. Contractor, its employees, agents and subcontractors shall comply with this policy.

21. PAYMENT OF MEDICAL CARE

CONSULTANT shall promptly, as due, make payment to any person, copartnership, association or corporation, furnishing medical, surgical and hospital care or other needed care and attention, incident to sickness or injury to the employees of such CONSULTANT, of all sums which the CONSULTANT agrees to pay for such services and all moneys and sums which the CONSULTANT collected or deducted from the wages of employees pursuant to any law, contract or agreement for the purpose of providing or paying for such service.

22. OVERTIME

Employees shall be paid for overtime work performed under this contract in accordance with ORS 653.010 to 653.261 and the Fair Labor Standards Act of 1938 (29 U.S.C. Sections 201 to 209).

23. USE OF ENGINEER'S DRAWINGS AND OTHER DOCUMENTS

The CITY retains all drawings and other documents prepared by the CONSULTANT for the project after payment to CONSULTANT.

CONSULTANT will not be held liable for reuse of documents or modifications thereof for any purpose other than those authorized under this Agreement.

24. STANDARD OF CARE

The standard of care applicable to consultant's services will be the degree of skill and diligence normally employed by professional engineers or consultants performing the same or similar services at the time CONSULTANT'S services are performed. CONSULTANT will re-perform any services not meeting this standard without additional compensation.

25. NO THIRD PARTY BENEFICIARIES

This contract gives no rights or benefits to anyone other than the CITY and CONSULTANT and has no third party beneficiaries.

26. ASSIGNMENT

This contract is personal to Consultant and may not be assigned or any work subcontracted without consent from the CITY.

27. SEVERABILITY AND SURVIVAL

If any of the provisions contained in this Agreement are held illegal, invalid or unenforceable, the enforceability of the remaining provisions shall not be impaired thereby. Limitations of liability shall survive termination of this Agreement for any cause.



Attachment A

EUGENE, OR
Corporate Office
541.683.6090

LAKE OSWEGO, OR
503.620.6103

SALEM, OR
503.589.4100

MEDFORD, OR
541.774.5590

VANCOUVER, WA
360.314.2391

www.obec.com

June 30, 2016

Jeff Harrington
City of Astoria
1095 Duane Street
Astoria, OR 97103

RE: Astoria Waterfront Bridges Repair Project

Dear Mr. Harrington:

OBEC Consulting Engineers (OBEC) is pleased to present this proposal for engineering services related to the Astoria Waterfront Bridges Repair Project. We understand recent inspections have identified critical repairs required for structural elements of the bridges between the shore and the waterfront wharf at 6th, 7th, 8th, 9th, 10th, and 11th Streets. The City of Astoria (the City) is required to complete identified repairs as soon as possible. A bid package presenting the required repair construction details is needed. We have reviewed the ODOT Timber Boring Reports and the associated Inspection Reports and recommend the following scope of work to prepare construction drawings for the bid package.

Scope of Work

- Task 1 – Summarize and tabulate repair requirements identified on the ODOT Timber Boring Forms on a drawing. Sort repairs by type and group similar repairs to minimize the number of details. Each repair will be classified as "in-kind" or a reference to a repair detail on a subsequent sheet will be provided.
- Task 2 – Perform analysis and design repair details for those elements where "in-kind" repair is not feasible. Specifically, this includes analysis of the trolley trestle structure. OBEC will incorporate reduced section properties in the trestle analysis to determine if some deteriorated elements are adequate to remain in service.
- Prepare material and technical specifications in note format on drawings.
- Prepare a plan for each bridge in ACAD format utilizing existing three dimensional scan data files. The plans will contain call outs referring to the repair table drawing. The repair table will refer to sections and details presented on subsequent drawings.
- Prepare drawings in ACAD format presenting sections and details.
- Provide technical services during construction
- Attend final walk through and prepare letter of acceptance for ODOT

Deliverable: Final Plans in ACAD format suitable to be used for a bid package. The drawings will be stamped by an engineer registered in the state of Oregon. Four sets of full-size hard copies will be provided.

Services Excluded

The following services are not included in this Scope of Work:

- Geotechnical design
- Seismic Analysis
- Cost estimating
- Environmental permitting
- Application for a building permit
- Construction Management

Clarifications

- All repair requirements are based on the results of the inspection completed by DEA in April of 2016. OBEC has not performed an independent inspection recently. Latent or hidden deficiencies may be discovered during construction that will require a change or expansion of the repair design.
- No requirement for geotechnical design is anticipated. If the need for geotechnical design services arises, OBEC will notify the City and request an amendment to the contract.
- We understand the City has all environmental permits required to perform this repair work. We further understand minor excavation at the base of a pile above the water is acceptable.
- It is assumed no building permit is required for this trolley trestle repair project.
- No 8.5x11 specifications will be prepared.
- The City is responsible for preparation of Division 1 contract documents.
- The City will prepare the bid package and all associated documentation. No allowance is included here for OBEC to assist with the bidding process.
- The budget allowance included for technical services during construction is based on 3 site visits and 4 hours for design support.
- Mileage expenses are predicated on three round trip to Astoria from Portland. Additional trips will require an amendment to the proposed expense estimate.
- It is OBEC's intention to create single repair details that may each cover multiple repairs that are similar in order to expedite preparing the bid drawings. This will allow all the bidders to provide pricing. The selected contractor may be required to communicate frequently with OBEC during construction to confirm exact details for individual repairs and this may result in change orders for the contract.
- The project closeout budget is predicated on OBEC visiting the site for a final inspection and preparing a letter of acceptance for ODOT.

Schedule

OBEC is beginning work immediately, based on Mr. Harrington's email approval of a \$5,000 direct billing account with the City. Assuming timely approval of this proposal, OBEC plans to provide drawings, as described above, for bidding purposes to the City on Monday August 1st, 2016.

Fee Estimate

The estimated fees for these engineering services are detailed in the attached spreadsheet. Labor rates are based on OBEC's 2016 rate table, attached for your reference. OBEC proposes to complete the services outlined in our scope of work on a time-and-materials basis for an estimated fee not to exceed (NTE) \$43,031. This estimated fee includes the \$5,000 pre-approved via email on June 20, 2016. The estimated fee will not be exceeded without prior written authorization from The City of Astoria. Any changes to the scope of work, whether requested by the City or due to other circumstances, will be documented in writing and promptly communicated to the City.

We trust this proposal provides you with the information required for this bridge repair project and hope that it meets with your approval. If you have any questions, please do not hesitate to contact me at 971-634-2002.

Sincerely,

X

Jason Kelly, PE,
Inspection Division Manager
971-634-2002



July 7, 2016

MEMORANDUM

TO: MAYOR AND CITY COUNCIL

FROM: BRETT ESTES, CITY MANAGER

SUBJECT: AUTHORIZATION TO AWARD CONTRACT - ASTORIA AQUATIC CENTER
WATERSLIDE PUMP AND CHECK VALVES REPLACEMENT

DISCUSSION/ANALYSIS

The waterslide feature at the Astoria Aquatic Center closed on June 17th when the pump used to propel water down the slide fell into disrepair. Originally a pump from a fishing boat, was donated to the Astoria Aquatic Center in 1998 during construction to help defray the costs associated with the waterslide.

The pump has been retrofitted to be used with the waterslide and parts of the old system are now in disrepair and failing. There are two check valves in the pipe system designed to block buildups of air or water pressure from causing damage. Since these check valves have failed, damage has occurred to the strainer basket housing, lid, and the impellor of the pump. A tremendous amount of pressure builds up while the pump is in operation and air is pulled into the system through the strainer basket housing and lid cracks that have formed from years of the "water hammer" effect occurring due to the failed valves.

If the pump is run in its current state, there is potential for the lid to blow apart under the force of the pressurized water and air and cause significant injuries. The best course of action is to replace the pump with a 15 HP Pentair EQ Series Pump, replace the failed check valves, and adapt the existing plumbing system to accommodate the new hardware. A new pump will be safer, quieter, and will be connected to a variable speed drive system that will allow a small amount of water to constantly recirculate while the waterslide is not in use, lowering the chance of a "water hammer" effect from occurring by eliminating the need to prime the pump before use.

Parks and Recreation Department staff solicited three quotes to replace the existing waterslide pump and failed check values with a new 15 HP Pentair EQ Series Pump and new hardware. The Pool and Spa House provided a quote in the amount of \$12,125.38 within the three week quote deadline. Funds to replace this pump are available in the Capital Improvement Fund.

RECOMMENDATION

It is recommended that City Council award a contract with The Pool & Spa House in the amount of \$12,12538 to replace the existing waterslide pump and failed check valves with a new 15 HP Pentair EQ Series Pump and new hardware.

By: Angela Cosby
Angela Cosby
Director of Parks & Recreation



Remit To:

P.O. Box 23788
Portland, OR 97281-3788
CCB 147444

Quote

Quote ID: 512788
Customer ID: 5566
Employee ID: jra
Quote Expires: 12/31/2016

City of Astoria
1095 Duane St
Astoria, OR 97103

Location:
Astoria Aquatic Center
1997 Marine Dr
Astoria, OR 97103
Home (503) 325-7027

Qty	Item	Unit Price	Discount	Total
1	15 HP SLIDE PUMP INSTALLATION - PVC PIPING CHECK VALVES INSTALLATION	\$14,026.39	\$1,901.01	\$12,125.38

Sub Total	\$12,125.38
Taxes	\$0.00
Total	\$12,125.38

PENTAIR COMMERCIAL PLASTIC 15 HP EQ SERIES SLIDE PUMP INSTALLATION
PVC PIPING & CHECK VALVES REPLACEMENT

- 15 HP Pentair EQ Series Pump
- 8" Gear Controlled Butterfly Valves
- SCH 80 PVC 6" - 8" Rigid Pipe & Fittings
- SCH 80 PVC 4" Rigid Pipe & Reducer
- PVC 8" Flanges (6)
- PVC 4" Flange (1)
- 8" Wafer EPDM (Swing) Check Valve
- 8" Wafer EPDM (Spring / 316SS Spring) Check Valve
- Bolt Packs for Flanges (6)
- Miscellaneous Parts and Materials
- Labor for PVC Piping Replacement, Pump & Check Valves Installation

PLEASE FAX OR EMAIL SIGNED APPROVAL TO (503) 620-5909 - service@thepoolandspahouse.com

Site Inspected By: John Achtel

Quote Prepared By: Howard Stephenson / John Achtel

ACCEPTANCE: The above prices and specifications are satisfactory and are hereby accepted.

Signature: _____

Date: _____

Deposit: _____

All work to be completed in a workmanlike manner in accordance with standard practices.

Any alterations or deviations from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above this estimate.

All agreements contingent upon strikes, accidents or delays beyond our control.

Our workers are fully covered by Workmen's Compensation Insurance.

Owner to carry fire, flood and other necessary insurance.